

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065020006-0

ZHURAVLEV, Aleksey Pavlovich

author of booklet "Stakhanov Method of Work at Electric Furnaces"

SO: Moscow News,, 9 March 1946 Unclassified

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CIA-RDP86-00513R002065020006-0"

ZHURAVLEV, A.P., inzhener.

Concerning A.I.Glushenkova's articles "Effect of cooling the horizontal cage of the double-action screw press on the processing of cottonseed." Masl.-zhir.prom. 17 no.11:26 N '52. (MIRA 10:9)
(Oil industries--Equipment and supplies) (Cottonseed)

ZHURAVLEV, A. P., ENG.

Sunflower Seed Oil

New method for drying sunflower seeds. Masl. -zhir. prom. 18, No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

ZHURAVLEV, A.S., inzhener.

Heat treatment of boiler fitting parts made of 38KhNIUA steel.
Energomashinestrenie no.6:23 Je '56. (MLRA 9:9)
(Steel alloys--Heat treatment)(Boilers--Accessories)

137-58-4-8303

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 283 (USSR)

AUTHOR: Zhuravlev, A.S.

TITLE: Selecting the Grade of Carbon Steel for Cyanided Articles (O vybore marki uglerodistoy stali dlya tsianirovannykh detaley)

PERIODICAL: Tekhnol. transp. mashinostroyeniya, 1957, Nr 7, pp 9-10

ABSTRACT: Fluctuations in the C content within the limits of composition of a given grade has a marked effect on the hardenability of a steel. An increase in the hardness of the core of cyanided parts (P) is accompanied by a significant impairment of its plastic properties. Small cyanided P may be produced from Nr 10 steel which yields a core of ample strength and satisfactory plasticity. The embrittlement of cyanided P may be reduced by repeated quenching at diminished temperature, which is required only for complete hardening of the cyanided layer. Employment of Nr 20 steel is practical only if, with the dimensions specified, it is impossible for Nr 10 steel to provide the required strength even on quenching directly from the cyanide bath.

Card 1/1 1. Steel--Hardening--Selection 2. Steel--Applications I.B.
 3. Steel--Mechanical properties--Hardening effects

ZHURAVLEV, A.S.

Testing thick welded structures. Avtom.svar. 10 no. 4:113-115
(MIRA 10:10)
J1-Ag '57.

1. Barnaul'skiy kotlostroitel'nyy zavod.
(Plates, Iron and steel--Welding) (Electric welding--Testing)

ZHURAVLEV, A.S., inzh.

Steel for high pressure vessels. Energomashinostroenie 4
no. 7:45-47 J1 '58.

(Sheet steel--Testing)

(MIRA 11:10)

ZHURAVLEV, A.S., inzh.

Stamping of drum bottoms of high-pressure boilers. Energomashinostroenie
4 no. 9:41 S '58.
(Boilers)

AUTHOR: Zhuravlev, A.S. SOV/133-58-12-16/19

TITLE: -ON the Method of testing Boiler Plates (O metodike
ispytaniya kotel'nogo lista)

PERIODICAL: Stal', 1958, Nr 12, pp 1133-1134 (USSR)

ABSTRACT: These are remarks on the previously published paper by
V.I. Dorokhov, A.V. Lopatin and V.A. Molotkov (Stal',
1958, Nr 4) in which the replacement of the test of boiler
plates for fracture by a test for their macrostructure
was proposed. The present author agrees with the original
authors and considers that plates for boilers should be
tested for macrostructure (segregation and laminations)
and in testing for mechanical properties, specimens should
be taken under similar conditions as for round and square
rolling products. The bedding test should be replaced by
a careful examination of the whole surface.

ASSOCIATION: Barnaul'skiy kotel'nyy zavod (Barnaul Boiler Works)

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ZHURAVLEV, A.S., snab.

Testing of thick-plate boiler steels. Energomashinostroenie
11 no.4-33-34 Ap '65. (MIRA 18:6)

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CIA-RDP86-00513R002065020006-0"

ZHURAVLEV, A.S., inzh.

Electric slag welding of 16GNM steel with 15G8MF steel.
Svar. proizv. no. 9830. S '64.

(MIRA 17:12)

1. Barnaul'skiy kotel'nyy zavod.

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CIA-RDP86-00513R002065020006-0

ZHURAVLEV, A.S., inzh.

Use of 16GNM steel for manufacturing boiler drums. Energomashino-
stroenie 9 no.11:30-31 N '63. (MIRA 17:2)

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CIA-RDP86-00513R002065020006-0"

ZHURAVLEV, A.S.

Properties of the weld joint metal in steam boiler drums
build of 20K steel. Avtom. svar. 16 no.12:83 D '63.
(MIRA 17:1)

ACCESSION NR: AP4001109

S/0114/63/000/011/0030/0031

AUTHOR: Zhuravlev, A. S. (Engineer)

TITLE: Application of 16GNM steel for steam boiler shells

SOURCE: Energomashinostroyeniye, no. 11, 1963, 30-31

TOPIC TAGS: 16GNM steel, low-alloy manganese-nickel-molybdenum steel, manganese-nickel-molybdenum steel shell, manganese-nickel-molybdenum steel sheet, steam boiler shell, steam boiler steel sheet, electroslag shell welding, steam boiler shell welding, high pressure steam boiler shell

ABSTRACT: Bending operations and the welding and joining of shells to boiler heads to form boiler drums are described as they are performed at the Barnaul and Taganrog boiler-building plants. The mechanical properties of 16GNM steel as produced in both plants are tabulated (extreme values and mean arithmetical values). The boiler heads are normalized under different conditions at the two

Card 1/2

ACCESSION NR: AP4001109

plants; hence, at the Barnaul plant, pressworking and normalizing operations were joined which resulted in a higher rate of cooling and better strength. The statistics of chemical composition variations of 16GNM steel (C, Ni, Mn, Cr, Mo, Cu) are given in Table 3 for 175 melts carried out during 1959-1961. It is recommended that 16GNM steel be used only if its normalizing is performed at a rapid cooling rate, and that the acceptance tests imitate the conditions of its actual use more closely. Orig. art. has: 3 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 13Dec63

ENCL: 00

SUB CODE: MA, ML

NO REF SOV: 000

OTHER: 000

Card 2/2

ZHURAVLEV, A.S.

Brand 15KhNF steel. Avtom. svar. 15 no.9:90 S 162.
(MIRA 15:9)
(Steel alloys)

ZHURAVLEV, A.S., inzh.

Testing weld joints for bending. Svar. praviv. no. 6:43 Je '61.
(MIRA 14:6)

1. Barnaul'skiy kotel'nyy zavod.
(Welding—Testing)

49

S/114/60/000/002/005/007
E193/E183

AUTHOR: Zhuravlev, A.S., Engineer

TITLE: Properties of Steel 22K (22K) at 320 °C and Safety Factors for Calculations in Steam Boiler Shell Design

PERIODICAL: Energomashinostroyeniye, 1960, No. 2, pp. 37-38

TEXT: The results of earlier investigations, carried out by the present author (Refs 1, 2) who has studied the problem of safety factors in designing high-pressure vessels made of steel 22K and operating at room temperature, have shown that if a safety factor of 1.65 is chosen in respect to the yield point of this material, the safety factor in respect to its U.T.S. may be = 3. The object of the present investigation was to determine the relationship between these two safety factors for vessels made of the same steel but operating at 320 °C. To this end, a statistical study of U.T.S., yield point, reduction of area, and elongation of steel 22K at 320 °C, was carried out. The following conclusions were reached. 1) Strength of steel 22K at 320 °C is lower than the room temperature strength, the yield point being reduced by 27% and the U.T.S. by 4.5%. 2) If, in designing boiler shells for service

Card 1/2

S/114/60/000/002/005/007
E193/E183

Properties of Steel 22K at 320 °C and Safety Factors for
Calculations in Steam Boiler Shell Design

at 320 °C, a factor of safety (in respect to the yield point) of 1.65 is used, this will ensure a safety factor of 3.6 in respect to the U.T.S. of steel 22K at this temperature. Since the recommended safety factor in respect to U.T.S. is 3, it is sufficient to base the design calculations on the yield point of the steel, without taking into account the safety factor in respect to its U.T.S.

3) The specifications for 22K steel for boiler construction should be revised and material used in this application should have yield point at 320 °C not lower than 19.5 kg/mm². This should result in considerable economies, owing to the reduced weight of the material, and batches of steel 22K not meeting this specification could be used in other, less critical, applications.

There are 3 tables and 2 Soviet references.

Card 2/2

L 25L09-65

EWT(m)/ EWT(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)

J/T/JM/EP

ACCESSION NR: AP5006292

8/11/95 4/10/96 5/10/96 6/10/96

16

B

AUTHOR: Zouravlev, A. J., Eng. (see)

TITLE: Electroslag welding of 16GND steel with 15GSMF steel

SOURCE: Svarochnoye proizvodstvo, no. 9, 1964, 30

TOPIC TAGS: steel, alloy steel, power plant component, electric welding, metal property

Translation: 16GND steel, used in the manufacture of cylinders for high-pressure steam boilers, should, because of the shortage of nickel, be replaced from production and replaced with nickel-free alloy steels. In this connection, work is being carried out at the Institute of Metallurgy and Heat Treatment on

Card I/4

L 25409-65

ACCESSION NR: AF5006292

The experiments which were carried out showed that 150 GMP steel has satisfactory engineering properties. It was decided to make a series of industrial cylinders for installation in KZ-210 boilers. These sheets of steel.

卷之四

L 25L09-65
ACCESSION NR:AE5006292

The mechanical properties of the steel tested at 590°C allowed the technical specifications for EKZ-210 to be met.

The above study established that the shear metal resulting from the electrical discharge of the plasma arc had a higher melting point than the steel and Al- β .

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Card 3/4

卷之三

ACCESSION NR: APE006292

Table 2

Testing temperature (°C)	Tensile strength (kg/mm²)	Yield strength (kg/mm²)	Elongation (%)	Reduction in area (%)
350	52.1	29.7	19.6	54.4
350	53.2	31.6	20.2	56.9

ASSOCIATION: Barnaul'skiy kotel'nyy uavod (Barnaul Boiler Plant)

卷之三

THE TIMES 161

MARCH 1971 VOL 46 / NO 3

卷之三

Card 4/4

ZHURAVLEV, A.S., inzh.

Properties of 22K steel at 320° and calculated coefficients
for the drums of steam boilers. Energomashinostroenie 6
no.2:37-38 F '60. (MIRA 13:5)
(Boilers) (Steel)

KOPTEL'TSEV, V.V.; DAGAYEV, V.F., doktor meditsinskikh nauk, savyeduyushchiy;
ZHURAVLEV, A.V., glavnnyy vrach.

Problem of inter-thoracic plastic surgery of the esophagus in cicatrical
stenosis. Vest.khir. 73 no.3:61 My-Je '53. (MLRA 6:6)

1. Pervoye khirurgicheskoye otdeleniye Tul'skoy gorodskoy bol'nitsy imeni
Semashko (for Koptel'tsev and Dagayev). 2. Tul'skaya gorodskaya bol'nitsa
imeni Semashko (for Zhuravlev). (Esophagus--Surgery)

ZHURAVLEV, A.V., inzhener.

Use of binder "M" for iron coremaking. Lit. preisny. no.3:25 Mr
'57. (Coremaking) (Binding materials) (MIREA 10:4)

PYATISOTNIKOV, Aleksandr Ivanovich; ZHURAVLEV, Arkadiy Vasil'yevich;
VEROMAN, V.Yu., red.

[Electric machining of intricately shaped parts made of heat-resistant alloys] Obrabotka detalei slozhnogo profileya iz zharoprotchrykh splavov elektricheskimi sposobami. Leningrad, 1963. 21 p. (Leningradskii dom nauchno-tehnicheskoi propagandy. Obmen peredovym opyтом. Seriya: Elektricheskie metody obrabotki materialov, no.7) (MIRA 17:4)

ZHURAVLEV, A.V. (Leningrari, P-180, Pereulok Il'icha, 4, kv. 25)

Changes in transitional epithelium following the action of ionizing radiation. Arkh. anat., gist. i embr. 45 no. 103
59-66 O '63. (MIR 17:9)

1. Laboratoriya eksperimental'noy gistolologii (zav. ... prof.
V.P. M'khaylov) Instituta eksperimental'noy meditsiny AMN
SSSR, Leningrad.

ZHURAVLEV, A.V. (Leningrad, F.180, perelok Il'icha, d.4, kv.25)

Improved method for the cytological examination of sputum. Vop. onk.
10 no.9:86-92 '64. (MIRA 18:4)

1. Iz laboratori eksperimental'noy morfologii (zav. - doktor
med.nauk M.P.Ptokhov) Instituta onkologii AMN SSSR (dir. -
deystviteľ'nyy chlen AMN SSSR prof. A.J.Serebrov).

OSIPOV, V.G.; KIZEVETTER, I.V.; ZHURAVLEV, A.V.; SUCHKOV, A.I.,
spets. red.; KORZHOOVA, Yu.A., spets. red.; KAMENSKAYA,
Ye.A., red.

[Tuna fish and swordfish of the Pacific and Indian Oceans]
Tuntsy i mecheobraznye Tikhogo i Indiiskogo okeanov. Mo-
skva, Izd-vo "Pishchevaya promyshlennost', 1964. 72 p.
(MIRA 17:8)

ZHURAVLEV, A.V.

Cambial elements of the transitional epithelium in connection with
its position in the system of epithelial tissues. Arkh. anat., g'st.
i embr. 47 no.8:66-74 Ag '64. (MIRA 18:4)

l. laboratoriya eksperimental'noy histologii (zav. - prof. V.P.
Mikhaylov) Instituta eksperimental'noy meditsiny AMN SSSR.

ZHURAVLEV, A.Ya.

ANOKHIN, A.I., doktor tekhnicheskikh nauk, prof. [deceased]; BORODACHEV, I.P. kand. tekhnicheskikh nauk; BROMBERG, professor; VASIL'YEV, A.A., laureat Stalinskoy premii; PETERS, kandidat tekhnicheskikh nauk; POLOSIN-NIKITIN, S.M., kandidat tekhnicheskikh nauk; PRUSSAK, B.N., inzhener; RITOV, M.N., inzhener; FEYNBERG, G.M., inzhener; ESTRIN, M.I., inzhener; ALEKSEYEV, A.P., inzhener; BIRULYA, A.K., professor, doktor tekhnicheskikh nauk; BOLDAKOV, Ye.V., doktor tekhnicheskikh nauk; BOCHIN, V.A., laureat Stalinskoy premii, inzhener; VOIKOV, M.I., professor; GIBSHMAN, Ye.Ye., professor, doktor tekhnicheskikh nauk; DONCHIENKO, V.G., dotsent, kandidat tekhnicheskikh nauk; ZHUEAVLEV, A.Ya., laureat Stalinskoy premii; IVANOV, N.N., laureat Stalinskoy premii, professor, doktor tekhnicheskikh nauk; KUVASOV, A.S., inzhener; NEKRASOV, V.K., kandidat tekhnicheskikh nauk; POLOSIN-NIKITIN, S.M., dotsent, kandidat tekhnicheskikh nauk; KHLEBNIKOV, Ye.L., laureat Stalinskoy premii, professor; ORNATSKIY, N.V., doktor tekhnicheskikh nauk, professor, redaktor; VOSKRESENSKIY, N.N., redaktor; KOVALIKHINA, N.F., tekhnicheskiy redaktor.

[Manual for highway engineers; road building machinery] Spravochnik inzhenera dorozhnika; dorozhno-stroitel'nye mashiny. Moskva, Izd-vo dorozhno-tekhn. lit-ry. Gushodzora MVD SSSR, 1952. 698 p.
[Microfilm]

(Road machinery)

(MLRA 9:2)

ZHURAVLEV, A.Ya.; MAL'KOVA, N.V., tekhnicheskiy redaktor.

[Design for reinforced concrete cantilever bridge spans with corrugated reinforcements] Proekt zhelezobetonnykh dvukhkon-sol'nykh proletnykh stroenii s karkasnoi armaturoi periodicheskogo profilia. Moskva, Nauchno-tekhn.izd-vo avtotransportnoi lit-ry. no.23: [Spans (center to center of piers supports) 14, 10, 16, 80, and 22-20 meters load N-13 and MG-60 Dimensions G-7 platforms 0,75 m] proletami (v osiakh opor) 14,10; 16,80 i 22,20 m. Nagruzka N-13 i MG-60 Gabarit G-7, trotuary po 0,75 m. 1954. 44 p. (MLRA 8:10)

1. Soyuzdorproyekt, Moscow.
(Bridges, Concrete)

ZHURAVLEV, A.Ya. MAL'KOVA, N.V., tekhnicheskiy redaktor.

[Standard plans for highway structures.] Tipovye proekty sooruzhenii na avtomobil'nykh dorogakh. Moskva, Avtotransizdat. No. 12-13 [Prestressed reinforced concrete spans. Span: 15,20 and 30 meters. Loads: N-13 and NG-60; N-18 and NK-80. Clearance: G-7.] Proletnye stroeniiia zhelezobetonnnye sbornyye s predvaritel'no-napriazhennoi armaturoi. Prolyty v svetu: 15, 0; 20, 0; 30, 0 m. Nagruzki: N-13 i NG-60; N-18 i NK-80. Gabarit G-7. 1954. 61 p. (MLRA 8:3)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya.
(Bridges, Concrete)

ZHURAVLEV, A.Ya.

ZHURAVLEV, A.Ya., laureat Stalinskoy premii, inzhener

More accurate methodology in calculating the statics of flexible
reinforced concrete pile supports. Avt.dor.17 no.1:22-23 J1-Ag
'54.

(MIRA 8:10)

(Bridges--Foundations and piers)

ZHURAVLEV, A.Ya., laureat Stalinskoy premii.

Inadequacy of some planning specifications for current problems
in bridge construction. Avt.dor.17 no.2:21 S-0 '54. (MIRA 8:4)
(Bridge construction)

ZHURAVLEV, A.

ZHURAVLEV, A.

New economical design for supports with reinforced concrete rockers.
Avt.transp. 32 no.5:27-28 My '54. (MIRA 7:7)
(Bridges, concrete)

MOROZ, I.P., laureat Stalinskikh premiy; ZHURAVLEV, A.Ya., laureat Stalinskikh premiy.

Standard construction design is a source of lowered costs in road construction. Avt.dor. 18 no.1:8-9 Ja-F '55. (MIRA 8:4)
(Roads--Estimates and costs)

ZHURAVLEV, A.Ya.

Horizontal anchors for support joints of suspended reinforced concrete beams. Avt.dor. 18 no.1:26 Ja-F '55. (MIRA 8:4)
(Bridges, Concrete)

ZHURAVLEV, A.Ya.

Prestressed bridge spans made of blocks prepared in machines.
Avt. dor. 19 no.7:18-20 J1 '56. (MLRA 9:10)

(Bridges, Concrete) (Girders) (Prestressed concrete)

ZHURAVLEV, A.Ya.

Some problems of the technical trends in bridge construction.
Avt. dor. 19 no.10:23-24 O '56. (MLRA 9:12)

(Bridge construction)

ZHURAVLEV, A.Ya.

Reinforced concrete multispan cantilever bridges. Avt. dor. 21
no. 7:10-11 Jl '58. (MIRA 11:8)
(Bridges, Concrete)

ZHURAVLEV, A.Ya.

Norms for the design of bridge supports require revision. Avt.dor.
26 no.9:32 S '63. (MIRA 16:10)

ZHURAVLEV, A.Ya.

Complicated highway crossing on different levels. Avt.dor. 25
no.3:12-13 Mr '62. (MIRA 15:3)
(Road construction)

ZHURAVLEV, A.Ye., Laurent Stalinskoy promii

Reinforced-concrete trussed bridge with frame suspension.
Avt.dor. 24 no.9:22-25 S '61. (IIMA 14:10)
(Bridges, Concrete)

SHEVELEV, I.N., kand.med.nauk; ZHURAVLEV, A.Ye.

Protective hood in driving in track pins is a new method for preventing eye injuries. Zdrav. Kazakh. 21 no. 4:8-9 '61.
(MIRA 14:4)

1. Iz Kazakhskogo nauchno-issledovatel'skogo instituta glaznykh bolezney.

(EYE—WOUNDS AND INJURIES) (TRACTORS—REPAIRING)

L17729-65 : RIA(X)/EWP(R)/(P)(A)/EMC(E)/EMAG(E)/EMB(W)/EMF(V) : P : F/sep
ASD/CAT-27/FIT/1EDC(a)/SSD/1FD/1FD/1FTC(b)/ISI(d) : CH

ACCESSION NR : APSC/NR 24

S. 2178/14/010/1X16/0103/0607

AUTHORS: Zhuravlev, O. O. (Zhuravlev, A. Ye.) (Kiev)

TITLE: Symmetrical deformation of a conical shell reinforced with ribs. 16

SOURCE: Praktikada mehanika, v. 10, no. 6, 1964, 600-607

TOPIC TAGS: conical shell, deformable body, computer/uses of electronic computer

ABSTRACT: The problem of stretching and bending of a closed out shell of constant thickness, reinforced on one side (inside or out) by closely spaced meridional ribs of various cross-sectional and axial shapes, has been investigated. The solution was obtained by applying the method of thin shell surfaces and the

14729-64	ACCESSION NR:	AF500006	160 120 300 005	ENCL 1 00
ASSOCIATION:	Institution established by All Drugs Committee, AN UIC 222			
SUBMITTED:	16Jul16			
SUB CODE:	AS	160 120 300 005	ENCL 2 00	
RECORDED BY: [Signature]				

SOV/124-58-10-11535

Transaltion from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 120 (USSR)

AUTHOR: Zhuravlev, A. Z.

TITLE: Determination of the Magnitudes and Directions of Maximum Strains
in Axisymmetrical Deformation (Opredeleniye velichin i napravleniy
maksimal'nykh deformatsiy pri osesimmetrichnom deformirovani)

PERIODICAL: Tr. Rostovsk.-n/D. in-ta s.-kh. mashinostr., 1957, Nr 8,
part 1, pp 177-184

ABSTRACT: A method is adduced for analysis of terminal strains and their
principal directions in the use of coordinate grids for the investiga-
tion of processes. The analysis of the principal directions differs
somewhat from that employed by other investigators (Siebel,
Pashkov) but yields identical results. The method suggested is
illustrated by the author's broaching experiments. [It is assumed
that the word "prishivka" is a misprint for "proshivka"; Transl.
Ed. Note.]

V. G. Osipov

Card 1/1

ZHURAVLEV, A. Z.

33167. Nastroyka Dushchestvuyushchikh Shnekoprototypov Stanov. Trudy
"ost. N/D Ih-Ta S.-kh. Mashinostroyeniya, Vyp. 5, 1949, C. 73-80

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

38157. ZHURAVLEV, A. Z.

Obrazovaniye gelikoidal'nykh poverkhostey prokatkoj. (Izgotovleniye
Detaley S.-kh. mashin). Sel'khozmashina, 1949, no. 12, s. 9-13

ZHURAVLEV, A. Z.

"A Nonlubricating Method for the Individual, Automatic Lubrication of Operating Cyclinders, Valves, and Throttles in an Air Sledge Hammer." Cand Tech Sci, Gor'kiy Polytechnic Inst imeni A. A. Zhdanov, Min of Higher Education USSR, Gor'kiy, 1954. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions
(14)

ZHURAVLEV, A.Z., kandidat tekhnicheskikh nauk.

Investigation of deviation in the cutting of angle iron. Sel'khozmashina
no.6:27-29 Je '54.
(Metal cutting)

ZHURAVLEV, A.Z., dotsent.

Investigation of the effect of viscosity on the feed of oil to
forging hammers without employing a lubricator. Sel'khozmashina
no.12:25-28 D '55. (MLRA 9:3)

(Lubrication and lubricants)

ZHURAVLEV, A.Z., inzhener

Automatic lubrication without specific oilers in the air-steam
hammers. Vest.mash.35 no.8:46-48 Ag'55. (MIRA 8:10)
(Forging machinery--Lubrication)

ZHURAVLEV, A.Z.

Effect of friction on the walls of a closed die on flow
characteristics of metal squeezed out between dies. Kuz.-
shtam.proizv. 1 no.12:9-11 D '59. (MIRA 13:4)
(Forging) (Metallography)

18.5100

77698
SOV/148-60-1-21/34

AUTHOR: Zhuravlev, A. Z.

TITLE: Condition for Metal Flow Into Central Orifice of
Closed Die With Smooth Walls

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya
metallurgiya, 1960, Nr 1, pp 124-131 (USSR)

ABSTRACT: This is an analytical and experimental investigation
of a method used to determine the resistance to
deformation and to establish the angle of inclination
of the die walls (in preliminary impressions) for
extrusion-forging. The extrusion is usually applied
to blanks symmetrical in respect to the axis. This
process was analysed in regard to the acting forces
and the character of metal flow by S. I. Gubkin,
G. Zaks, I. L. Perlin, L. V. Prozorov, Ye. P. Unksov,
S. N. Tarantov, M. I. Kalachev and others. In
spite of the large number of investigations, there

Card 1/9

Condition for Metal Flow Into Central Orifice 77698
of Closed Die With Smooth Walls SOV/148-60-1-21/34

are no well founded results regarding the determination of specific pressures especially for extrusion with small remaining butt. All investigators discovered the existence of zones of metal stagnation in the corners when the bottom of the die impression is at right angles to its side walls. The flowing out metal is sliding in relation to the stagnation zone, forming some kind of natural angle. The author considers a condition of equilibrium for an element located in the receiving zone (see Figure 1). The author applies the method of V. M. Zaruyev (Ref 7: V. M. Zaruyev, Determination of Stresses When Drawing the Rods and Pipes Without a Mandrel, Stal', Nr 2 (1949) confirmed by I. L. Perlin (Ref 8: I. L. Perlin, Concerning the Calculations of Pulling Forces During Drawing. Working of Metals by Forces of Pressure, Nr 1, Metallurgizdat, (1952)). In accordance with the above method of V. M. Zaruyev, the author assumes that the metal flows out of the die impression with displacement in relation to the rigid

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Condition for Metal Flow Into Central Orifice
of Closed Die With Smooth Walls

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SOV/148-60-1-21/34

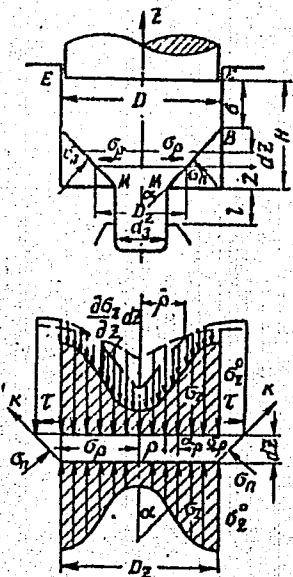
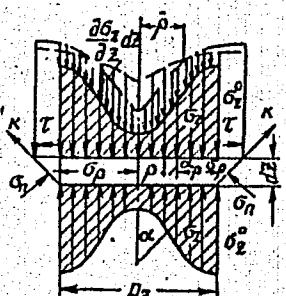


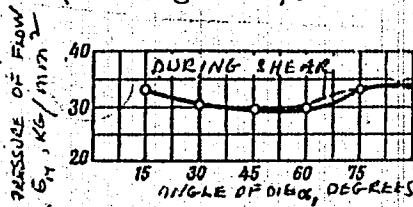
Fig. 1. Schematic diagram
of flow of metal into the
central orifice and of forces
acting on the element.-----
actual increment of stresses;
- - - - average increment
of stresses.

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Condition for Metal Flow Into Central Orifice 77693
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zones in the corner and derives 10 equations. He mentions the work of S. I. Ratner and S. T. Kishkin. The experiments conducted by S. N. Tarantov, L. V. Prozorov, and the author confirm that the angle of shear of metal flowing out of cylindrical die in relation to the zone of stagnation is close to 45° , when the walls of die impressions are well polished and lubricated. L. V. Prozorov established that the force of pressing is decreasing when the die angle increases from 15° to 60° . When the die angle increases from 60° to 90° the force of pressing again increases (see Figure 2).



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Fig. 2. (See card 5/9 for caption.)

Condition for Metal Flow Into Central Orifice
of Closed Die With Smooth Walls

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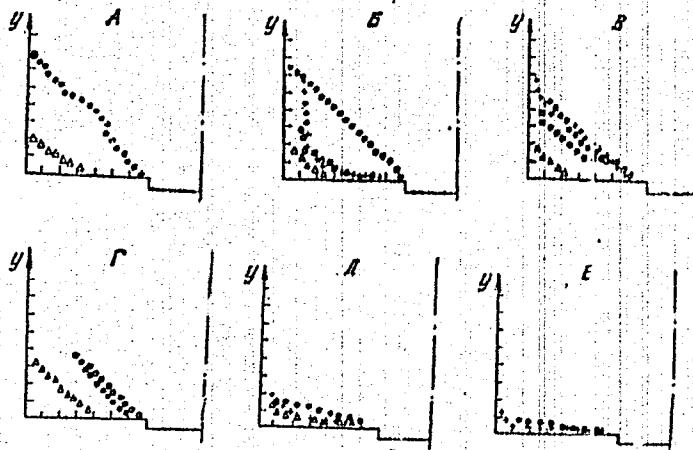
Fig. 2. Curve of change of specific pressure
depending on the change of the angle of inclination
of die generatrix.

G. D. Nebogatikov, analyzing the process of extrusion through a radial tapered die, proved that the optimum die angle equals 49° . The determination of angle α (see Figure 1) was made on lead samples of 40 mm diam and different lengths, prepared from two halves. A quadratic network was drawn on the plane of joint at 45° angle in respect to the axis of symmetry. The extrusion was produced in 4 stages: Stage 1-0.2-2% of metal volume; Stage 2-2%; Stage 3-5%; Stage 4-10% of metal volume. The boundary of bending of network lines was determined after every stage (see Figure 3).

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Condition for Metal Flow Into Central Orifice
of Closed Die With Smooth Walls

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Fig. 3. (see card 7/9 for caption)

Condition for Metal Flow Into Central Orifice
of Closed Die With Smooth Walls

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Fig. 3. The boundaries of metal sliding in relation to stagnation zones in the corner for samples of various height. (A) H = 51 mm; (B) H = 38 mm;
(B) H = 28 mm; (F) H = 20 mm; (A) H = 5.4 mm;
(E) H = 3.5 mm; (•) 1st stage; (+) 2nd stage; (O)
3rd stage; (Δ) 4th stage.

The derived equations were experimentally checked on lead samples. The yield point was determined. The process of extrusion was recorded in respect to the power required by the press and stroke of the punch (see Figure 4). The author concludes that in the extrusion-forging of components (symmetrical in respect to the axis) in closed dies, when central rods are formed by extrusion (not necessarily with clear shaping of the ends), the resistance to deformation should be determined by a formula in which the forces of friction on the walls are assumed (as proposed by Ye. P. Unksov) to be proportional to

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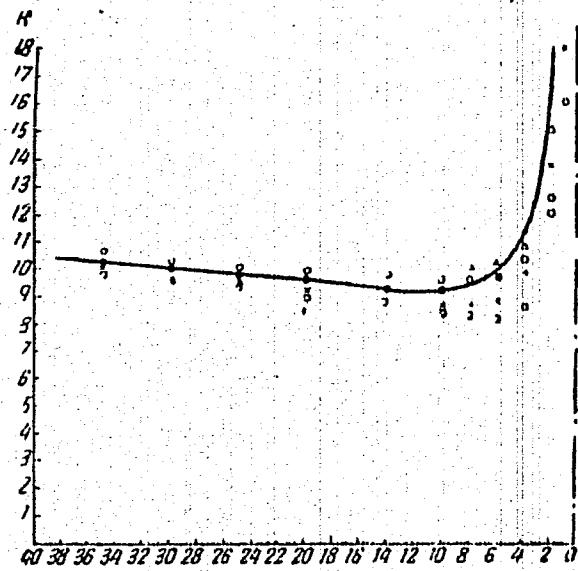


Fig. 4.

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Caption on Card 9/9

Condition for Metal Flow Into Central Orifice
of Closed Die With Smooth Walls

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Fig. 4. Curves of resistance to deformation during metal flow into central orifice of symmetrical (in respect to the axis) die: (O) extrusion of lead into rounded die $r = 1.5$; (x) die with a ridge; (●) calculated curve; (□) experiment by Zibel'; (Δ) rounded die when $H = 10$ mm.

the yield point and to the coefficient of friction. The author states that the value of the angle of generatrix of the boundary surface, over which the extruded metal is sliding, is determined if the effect of friction forces (on the walls of the die) on the angle of the generatrix of natural die are disregarded. There are 4 figures; and 10 references; 9 Soviet, 1 Swedish.

ASSOCIATION: Rostov-on-Don Institute of Agricultural Machinery Building
(Rostovskiy-na-Donu institut sel'skokhozyaystvennogo mashinostroyeniya)

SUBMITTED: July 3, 1958
Card 9/9

L 24464-65

ACCESSION NR: AF4049497

AUTHOR: Zhuravlev, A. Z. (Candidate of technical sciences)

TITLE: The feasibility of stamping parts in closed dies with forging hammers and crank presses

SOURCE: Vestnik mashinostroyeniya, no. 11, 1964, p. 64-66

TOPIC TAGS: metal stamping, closed die forging, metal forming, forging press, forging

ABSTRACT: The feasibility of stamping parts in closed dies with forging hammers and crank presses is discussed. If the maximum dimensional deviation of the blank is

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L 24464-65

ACCESSION NR: AP4049497

forging weight must satisfy $G \leq \pi D_1^2 / 4q$ (where G = hammer weight, D_1 = part

diameter, $q \geq 300 \text{ cm}^2/\text{ton}$) so as not to damage the die faces. An equation for the difference between the maximum and minimum height of a part in terms of billet and part dimensions is derived as: $\Delta H = \frac{D_1}{4} \left(A_1 + m(A_2 - A_1) \right)$; (where A_1 = nominal blank

diameter, D_1 = part diameter, A_1 = symmetrical length deviation of the billet from the nominal, m = billet length-to-diameter ratio, A_2 and A_3 = tool diameter deviations from the nominal). It is shown that the final height deviations of a stamped

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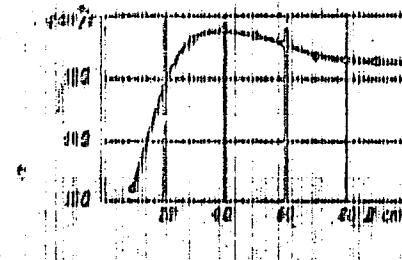
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Card 2/3

L 24464-65

ACCESSION NR: AP404949T

ENCLOSURE: 01



APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065020006-0"

ZHURAVLEV, A.Z.

Zones of intensive metal flow into the corner of a closed, axially
symmetric die. Izv.vys.ucheb.zav.; chern.met. 8 no.6:78-81 '65.
(MIRA 18:8)

1. Rostovskiy-na-Donu Institut sel'skokhozyaystvennogo mashinostroyeniya.

ZHURAVLEV, A.Z.

Range of optima angles of incidence of forming dies in the extrusion
of axially symmetric forgings. Izv. vys. ucheb. zav.; chern. met.
6 no.6:136-141 '63. (MIRA 16:7)

I. Rostovskiy-na-Donu institut sel'skokhozyaystvennogo
mashinostroyeniya. (Extrusion (Metals))

ZHURAVLEV, A.Z.

Stresses and unit pressures during forced metal flowing into
corners of closed dies. Izv. vys. ucheb. zav.; chern. met. 8
no.5:112-118 '65. (MIRA 18:5)

1. Rostovskiy-na-Donu institut sel'skokhozyaystvennogo mashino-
stroyeniya.

ZHURAVLEV, A.Z.

All-Polish conference in Warsaw. Kuz.-shtam. proizv. 4 no.9:
3 of cover S '62. (MIRA 15:9)

(Forging—Congresses)
(Sheet-metal work—Congresses)

S/182/60/000/006/003/009
A161/A029

AUTHOR: Zhuravlev, A.Z.

TITLE: The Parameters of Side Receivers (Compensators) for Stamping Axisymmetrical Parts in Closed Dies

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 6, pp. 14 - 17

TEXT: The side slits, or "compensators" for surplus metal preventing damage to closed dies were recommended by M.V. Storozhev (Ref. 1) in 1954. The method is coming into use, but the position and width of the compensators is yet chosen arbitrarily. The author analyzes the flow of metal in dies and suggests a method for calculating the proper width of the compensators and determining the proper place for them, i.e., a place into which metal cannot flow forming a burr before the most difficult corners in the die are filled. As was pointed out previously (Ref. 2), compensators around the entire periphery of the thickest portion of the forgings are best with regard to volume, as well as simplicity of the separation of surplus metal. A formula for calculating the deformation resistance of metal flowing into the corner of a die, and a simplified form of this

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S/182/60/000/006/003/009
A161/A029

The Parameters of Side Receivers (Compensators) for Stamping Axisymmetrical Parts in Closed Dies

formula assuming that friction on the die wall is proportional to the yield limit and the friction coefficient are derived. The proper compensator width is calculated. A group of four forgings are shown, for which the simplified (above-mentioned) formula is suitable, with the compensator at the thickest portion in the corners (the only possible place for these forgings). Experiments have been carried out and the results confirmed the correctness of the calculations. A practical problem is solved to illustrate the method: Determination of the width of the side compensator and the deformation resistance at stamping a КУД-6153 (KUD-6153) part of Gr.2 (St. 2) steel and with standard corner radii of 3 mm. The calculation results are: compensator width 2.7 mm; maximum burr diameter 152 mm; deformation resistance at the end of stamping operation (800°C) 6 kg/mm²; resistance at the moment of the formation of a maximum burr at the maximum metal surplus in the die 402 tons. The calculation shows that deformation resistance rises only insignificantly after the forging proper is formed. Forging in an open die would require 650 tons according to A.V. Rebel'skly (Ref. 4). The method is recommended for large quantities of parts in closed (semi-closed) dies in stamp-

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S/18/60/000/006/003/009
A161/A029

The Parameters of Side Receivers (Compensators) for Stamping Axisymmetrical Parts
in Closed Dies

ing on horizontal forging machines, crank presses and drop forging presses. The use of side compensators (properly chosen) will produce optimum forces in stamping, permitting the metal consumption standards to be reduced by 4 - 8%. The durability of closed dies will be the same as that of open dies. There are 6 figures and 4 Soviet references.

✓
cc

Card 3/4

S/182/60/000/006/003/009
A161/A029

The Parameters of Side Receivers (Compensators) for Stamping Axisymmetrical Parts in Closed Dies

Fig. 3:

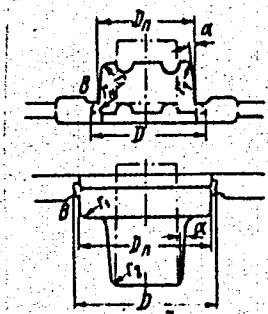


Fig. 3

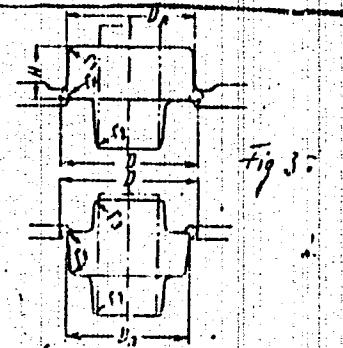


Fig. 3:

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SOV/123-59-16-64503

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 122 (USSR)

AUTHORS: Golubykh, I.S., Zhuravlev, B.A.

TITLE: The Normalizing of Flexible Shafts

PERIODICAL: Sb. nauchn. tr. Kuybyshevsk. industr. in-ta. Mekhanika, 1958, vyp 7, 169 - 179

ABSTRACT: The kinematic scheme and electric circuit are given and a machine is described, designed for the annealing of flexible shafts - steel rods of 0.5 - 0.6 mm in diameter with a steel 50 wire wound on in four layers. The necessary annealing temperature (not exceeding 450°C) is maintained automatically. 12 drawings.

F.M.A.

Card 1/1

ZHURAVLEV B.A.

MEL'NIKOV, Valentin Ivanovich, dots., kand.tekhn.nauk; SENGHEYEV, Petr
Grigor'yevich, dots., kand.tekhn.nauk; ZHURAVLEV B.A. red.;
SOKOL'SKAYA, Zh.M., red.izd-va; BRATISHKO, L.V., tekhn.red.

[Hauling tree-length logs] Vyvozka less v khlystakh. Moskva,
Goslesbumiädet, 1957. 98 p.
(MIRA 11:2)
(Lumber--Transportation)

ZHURAVLEV, B. A.

Industrialization of work in the assembly of steel pipe-lines for industrial use.
Moskva, Gos. izd-vo stroit. lit-ry, 1950. 198 p.
(52-20484)

TJ930.25

KOZLOVSKIY, A.S., inzhener; ZHURAVLEV, B.A., inzhener, nauchnyy redaktor.

[Roofer and tinsmith] Krov' shchik-shestianshchik. Rekomendovano
v kachestve ucheb. posobiia dlia shkol FZO stroit. promyshl. Moskva,
Gos. izd-vo lit-ry po stroitel'stvu i arkhitektуре, 1953. 114 p.

(MIRA 7:5)

(Roofing, Tin) (Tinsmithing)

MOSKOV, Sergey Kleonikovich, kandidat tekhnicheskikh nauk; ZHURAVLEV, B.A.,
inzhener, redaktor; NEPOMNYASHCHAYA, T.F., redaktor; TIKHON, M.M.,
tekhnicheskiy redaktor.

[Laying rolled roofing material under winter conditions] Ustroistvo
rulonnykh krovей v zimnikh usloviakh. Moskva, Gos.izd-vo lit-ry
po stroitel'stvu i arkitekture. 1954. 80 p.
(Roofing)

SHATSKIY, M.M.; VILLER, V.N. [deceased]; ZHURAVLEV, B.A., inzhener, nauchnyy
redaktor; SMIENOVA, A.P., redaktor; SHOL'YAKOVA, N.V., tekhnicheskiy
redaktor.

[Technical and economic comparison of hot-water heating systems]
Tekhnicheskoe i ekonomicheskoe srovnenie sistem vodianogo otplenija.
Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 190 p.
(Hot-water heating) (MLRA 7:12)

ZHURAVLEV, B.-A.

Building components of heating and ventilation systems. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 382 p. (54-43437)

TH7222.Z5

DUBROVKIN, S.D., inzhener; LISITSYN, S.N., inzhener; ZHURAVLEV, B.A.,
inzhener, redaktor.

[Installation of sanitary equipment in tall buildings] Montash
sanitarno-tehnicheskikh ustroistv vysotnykh zdanii. Moskva,
Gos. izd-vo lit-ry po stroitel'stvu i arkhitekturo, 1954. 437 p.
(Sanitary engineering)

(MLRA 7:8)

ZHURAVLEV, B.A.; LISITSYN, S.N.; DUBROVKIN, S.D., inzhener, redaktor;
BAYDINTASHCHAYA, T.F., redaktor; MHDVEDEV, L.Ya., tekhnicheskiy
redaktor; SMOL'YAKOVA, N.V., tekhnicheskiy redaktor.

[Handbook for a master plumber] Spravochnik master-santekhnika.
Moskva, Gos.izd-vo lit-ry po stroitel'stvu arkhitektura, 1955.
359 p. (Plumbing) (MIRA 8:10)

KOZLOVSKIY, A.S.; SAMODAYEV, Ye.T., kandidat tekhnicheskikh nauk, retsenent;
ZHURAVLEV, B.A., inshener, redaktor; MATVEYIEVA, Ye.N., tekhnicheskiy
redaktor.

[Tinsmithing] Zhestianitskie raboty. Moskva, Gos. nauchno-tekhn. izd-
vo mashinostreit. lit-ry, 1956. 135 p. (MIRA 9:6)
(Tinsmithing)

LIVCHAK, I.F., kandidat tekhnicheskikh nauk, detsent; ZHURAVLEV, B.A., inzhener,
redakter; GOLUBENKOVA, L.A., redakter; DAKHNOV, V.S., tekhnicheskiy
redakter.

[Systems of heating with concrete heating panels] Sistemy stekleniya s
betonnymi otepitel'nymi paneliami. Moskva, Gos. izd-vo lit-ry po stroyit.
i arkhitektura 1956. 141 p.
(Radiant heating)

BOGUSLAVSKIY, Leontiy Davidevich; ZHURAVLEV, B.A., redakter; RACHEVSKAYA, M.I., redakter izdatel'stva; PONOMARENKO, P.P., tekhnicheskiy redakter.

[Repair and operation of plumbing equipment in houses and public buildings] Remont i ekspluatatsiya sanitarno-tehnicheskikh ustroistv zhilykh i obshchestvennykh zdanii. Moskva, Izd-vo Ministerstva Kommercial'nego khoziaistva RSFSR, 1956. 235 p. (MLRA 9:6)

(Plumbing)

ZHURAVLEV, B.A.

PENTKOVSKIY, N.I., dotsent, kandidat tekhnicheskikh nauk; RAYKHINSHTEYN, S.I., dotsent, kandidat tekhnicheskikh nauk; BOGUSLAVSKIY, L.D., dotsent, kandidat tekhnicheskikh nauk; PASHCHENKO, N.Ye., inzhener, retsentent; POLYAKOV, D.L., inzhener, redaktor [deceased]; ZHURAVLEV, B.A., inzhener, nauchnyy redaktor; GOLUBENKOVA, L.A., redaktor izdatel'stva; PERSON, M.N., tekhnicheskiy redaktor

[Organization and planning of construction and assembly work in establishing heat and gas supply and ventilation] Organizatsiya i planirovaniye strel'no-montazhnykh rabot po teplo-gazosnabzheniiu i ventiliatsii. Pod red. D.L.Poliakova. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 293 p. (MLRA 9:11)

1. Chlen-korrespondent Akademii arkhitektury SSSR (for Pashchenko)
(Heat engineering) (Ventilation)

ZHURAVLEV B.A.

DUBROVKIN, S.D., inzhener; LISITSYN, S.N., inzhener; ZHURAVLEV, B.A., inzhener;
SMIRNOVA, A.P., red.izdatel'stva; GUSHEVA, S.S., tekhn.red.

[Welded plumbing systems] Svarnye sanitarno-tehnicheskie sistemy.
Moskva, Gos.izd-vo lit-ry po stroit.i arkhit., 1957. 105 p.
(MIRA 10:12)

(Welding) (Plumbing)

ZHURAVLEV, B.A.

ZHURAVLEV, B.A., inzh., nauchnyy red.; SKVORTSOVA, I.P., red.izdatel'stva;
PERSON, M.N., tekhn.red.

[Roofing manual] Rukovodstvo po ustroistvu rylonnykh krovей.
Izd.3-e, perer.i dop. Moskva, Gos.izd-vo lit-ry po stroit. i
arkhit., 1957. 181 p. (MIRA 10:12)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut po
stroitel'stvu.
(Roofing)

ZHURAVLEV, B.A.

SKOBLO, Yakov Aleksandrovich, dots.; ZHURAVLEV, B.A., nauchnyy red.;
SMIRNOVA, A.P., red.izd-va; GUSEVA, S.S., tekhn.red.

[Organization and planning of sanitary engineering] Organizatsiya
i planirovaniye sanitarno-tehnicheskikh rabot. Moskva, Gos.izd-vo
lit-ry po stroit. i arkhit., 1957. 187 p. (MIRA 11:2)
(Sanitary engineering)

ZHURAVLEV, Boris Aleksayevich.; LISITSYN, Sergey Nikoleyevich.; BALASHOV, A.I., nauchnyy red.; NINMYAYETS, D.K., red. issd-va.; GILENSON, P.G., tekhn. red.

[Manual on the installation of piping in shops] Spravochnik po montazhu vnutritsekhovykh truboprovodov. Moscow, Gos. issd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. 219 p. (MIRA 11:12)

(Pipe, Steel)

(Pipe fitting)

ZHURAVLEV, Boris Alekseyevich; LISITSYN, Sergey Nikolayevich;
VINOGRADOV, A.Ya., nauchnyy red.; PAKHOMOVA, M.A., red.
izd-va; GILENSEN, L.G., tekhn.red.

[Handboek for master plumbers] Spravochnik mastera-
santekhnika. Izd.2., perer. Moskva, Gos.izd-vo lit-ry po
stroit., arkhit. i stroit.materiamal, 1959. 328 p. (MIRA 12:7)
(Plumbing--Handbooks, manuals, etc.)

ZHURAVLEV, Boris Alekseyevich; LISITSYN, Sergey Nikolayevich; PRIDLYAID,
A.Sh., inzh., retsenzents; RYBAKOVA, V.I., inzh., red.; SOKOLOVA,
T.F., tekhn.red.

[Sheet steel workers handbook] Spravochnik sheetianshchika.
Moskva, Gos.sauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.
326 p. (MIRA 13:6)

(Sheet steel) (Metalwork)

ARIACHEV, Vadim Borisovich; ZHURAVLEV, B.A., red.

[Safety manual for workers engaged in loading and unloading reinforced concrete and steel pipes] Pamiatka po tekhnike bezopasnosti dlia rabochikh zaniatykh po-gruzkoi i razgruzkoi zhelezobetonnykh i stal'nykh trub. Moskva, Stroizdat, 1964. 28 p. (MIEA 17:9)

PETRYAYEV, Aleksandr Andreyevich; ZHURAVLEV, B.A., red.

[Safety manual for workers assembling industrial pipes]
Pamiatka po tekhnike bezopasnosti dlia rabochikh po
montazhu tekhnologicheskikh truboprovodov. Moskva,
Stroiizdat, 1964. 30 p. (MIRA 17:9).

ZHURAVLEV, B.A., aspirant

Effect of fertilizers on the yield of European yellow lupine
seeds in turf-Podzolic soils of Ivanovo Province. Sbor. nauch.
trud. Ivan. sel'khoz. inst. no.21:138-149 '63.

(MIRA 18:5)

KHANAPETOV, Mikhail Vasil'yevich; FOINYKH, Vitaliy Profir'yevich;
TSAGEL'SKIY, Vladimir Leopol'dovich, nauchn. red.;
ZHURAVLEV, B.A., red.

[Electric welder for responsible welding operations] Elek-
trosvarshchik otvetstvennykh svarochnykh rabot. Moskva,
Stroizdat, 1964. 262 p. (MIRA 17:12)

IVLEV, Nikolay Georgiyevich; ZHURAVLEV, B.A., red.

[Safety manual for mechanics in the construction industry]
Pamiatka po tekhnike bezopasnosti dlia stroitel'nogo slesaria. Moskva, Stroizdat, 1964. 70 p. (MIRA 17:8)